TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-26891-1

Job Description: Aspire Oakland

For:
ARCADIS U.S., Inc Formerly LFR, Inc.
1900 Powell St 12th Floor
Emeryville, CA 94608-1827

Attention: Mr. Ron Goloubow

Approved for release.
Afsaneh Salimpour
Project Manager I
3/31/2010 2:09 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
03/31/2010

CA ELAP Certification # 2496
The Chain(s) of Custody are included and are an integral part of this report.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

Job Narrative
720-26891-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC Semi VOA
Method(s) 8082: Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 68472.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 68642 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-26891-1	**SEWERLINE C-50'**				
Arsenic		5.7	3.9	mg/Kg	6010B
Lead		7.0	2.0	mg/Kg	6010B

METHOD SUMMARY

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL SF	SW846 8082	
Ultrasonic Extraction	TAL SF		SW846 3550B
Metals (ICP)	TAL SF	SW846 6010B	
Preparation, Metals	TAL SF		SW846 3050B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Method	Analyst	Analyst ID
SW846 8082	Cavalli, Evan	EC
SW846 6010B	Vega, Anthony	AV

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-26891-1	SEWERLINE C-50'	Solid	03/26/2010 1303	03/26/2010 1530

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Client Sample ID: **SEWERLINE C-50'**

Lab Sample ID: 720-26891-1 Date Sampled: 03/26/2010 1303
Client Matrix: Solid Date Received: 03/26/2010 1530

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-68511		Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-68472		Initial Weight/Volume:	30.32 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	03/29/2010 1757			Injection Volume:	1 uL
Date Prepared:	03/27/2010 1238			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		49
PCB-1221		ND		49
PCB-1232		ND		49
PCB-1242		ND		49
PCB-1248		ND		49
PCB-1254		ND		49
PCB-1260		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		32 - 112
DCB Decachlorobiphenyl	86		2 - 122

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Client Sample ID: **SEWERLINE C-50'**

Lab Sample ID: 720-26891-1 Date Sampled: 03/26/2010 1303
Client Matrix: Solid Date Received: 03/26/2010 1530

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 720-68642		Instrument ID:	Thermo ICP
Preparation:	3050B	Prep Batch: 720-68586		Lab File ID:	N/A
Dilution:	4.0			Initial Weight/Volume:	1.02 g
Date Analyzed:	03/30/2010 2129			Final Weight/Volume:	50 mL
Date Prepared:	03/30/2010 1234				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		5.7		3.9
Lead		7.0		2.0

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-68472					
LCS 720-68472/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-68472/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-68472/1-A	Method Blank	T	Solid	3550B	
720-26891-1	SEWERLINE C-50'	T	Solid	3550B	
Analysis Batch:720-68511					
LCS 720-68472/2-A	Lab Control Sample	T	Solid	8082	720-68472
LCSD 720-68472/3-A	Lab Control Sample Duplicate	T	Solid	8082	720-68472
MB 720-68472/1-A	Method Blank	T	Solid	8082	720-68472
720-26891-1	SEWERLINE C-50'	T	Solid	8082	720-68472

Report Basis
T = Total

Metals					
Prep Batch: 720-68586					
LCS 720-68586/2-A	Lab Control Sample	T	Solid	3050B	
LCSD 720-68586/3-A	Lab Control Sample Duplicate	T	Solid	3050B	
MB 720-68586/1-A	Method Blank	T	Solid	3050B	
720-26859-A-1-D MS	Matrix Spike	T	Solid	3050B	
720-26859-A-1-E MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-26891-1	SEWERLINE C-50'	T	Solid	3050B	
Analysis Batch:720-68642					
LCS 720-68586/2-A	Lab Control Sample	T	Solid	6010B	720-68586
LCSD 720-68586/3-A	Lab Control Sample Duplicate	T	Solid	6010B	720-68586
MB 720-68586/1-A	Method Blank	T	Solid	6010B	720-68586
720-26859-A-1-D MS	Matrix Spike	T	Solid	6010B	720-68586
720-26859-A-1-E MSD	Matrix Spike Duplicate	T	Solid	6010B	720-68586
720-26891-1	SEWERLINE C-50'	T	Solid	6010B	720-68586

Report Basis
T = Total

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Job Number: 720-26891-1

Method Blank - Batch: 720-68472

Method: 8082
Preparation: 3550B

Lab Sample ID: MB 720-68472/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/29/2010 1651
Date Prepared: 03/27/2010 1238

Analysis Batch: 720-68511
Prep Batch: 720-68472
Units: ug/Kg

Instrument ID: CHPCB # 2
Lab File ID: m0329008.d
Initial Weight/Volume: 30.31 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		49
PCB-1221	ND		49
PCB-1232	ND		49
PCB-1242	ND		49
PCB-1248	ND		49
PCB-1254	ND		49
PCB-1260	ND		49

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	96	32 - 112
DCB Decachlorobiphenyl	94	2 - 122

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68472

Method: 8082
Preparation: 3550B

LCS Lab Sample ID:	LCS 720-68472/2-A	Analysis Batch:	720-68511	Instrument ID:	CHPCB # 2
Client Matrix:	Solid	Prep Batch:	720-68472	Lab File ID:	m0329009.d
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.30 g
Date Analyzed:	03/29/2010 1713			Final Weight/Volume:	10 mL
Date Prepared:	03/27/2010 1238			Injection Volume:	1 uL
				Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 720-68472/3-A	Analysis Batch:	720-68511	Instrument ID:	CHPCB # 2
Client Matrix:	Solid	Prep Batch:	720-68472	Lab File ID:	m0329010.d
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.34 g
Date Analyzed:	03/29/2010 1735			Final Weight/Volume:	10 mL
Date Prepared:	03/27/2010 1238			Injection Volume:	1 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
PCB-1016	97	94	69 - 120	3	20		
PCB-1260	97	97	73 - 114	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	91	86	32 - 112
DCB Decachlorobiphenyl	87	86	2 - 122

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc Formerly LFR, Inc. Job Number: 720-26891-1

Method Blank - Batch: 720-68586

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-68586/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2010 2000
Date Prepared: 03/30/2010 1234

Analysis Batch: 720-68642
Prep Batch: 720-68586
Units: mg/Kg

Instrument ID: Thermo ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Lead	ND		0.50

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68586

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-68586/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2010 2004
Date Prepared: 03/30/2010 1234

Analysis Batch: 720-68642
Prep Batch: 720-68586
Units: mg/Kg

Instrument ID: Thermo ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-68586/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/30/2010 2008
Date Prepared: 03/30/2010 1234

Analysis Batch: 720-68642
Prep Batch: 720-68586
Units: mg/Kg

Instrument ID: Thermo ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	102	102	80 - 120	0	20		
Lead	102	102	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Job Number: 720-26891-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-68586

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	720-26859-A-1-D MS	Analysis Batch: 720-68642	Instrument ID: Thermo ICP
Client Matrix:	Solid	Prep Batch: 720-68586	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.00 g
Date Analyzed:	03/30/2010 2103		Final Weight/Volume: 50 mL
Date Prepared:	03/30/2010 1234		

MSD Lab Sample ID:	720-26859-A-1-E MSD	Analysis Batch: 720-68642	Instrument ID: Thermo ICP
Client Matrix:	Solid	Prep Batch: 720-68586	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.01 g
Date Analyzed:	03/30/2010 2107		Final Weight/Volume: 50 mL
Date Prepared:	03/30/2010 1234		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	60	64	75 - 125	6	20	F	F
Lead	183	202	75 - 125	4	20	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

TO-26891

123312

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

SAMPLE COLLECTOR:
LFR
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500 Fax: (510) 652-2246

PROJECT NO.: RV009155.0001 00001
SECTION NO.:
PROJECT NAME: Aspire Oakland
DATE: 03/26/10
SAMPLER'S INITIALS: AAV
SAMPLER (Signature): Andrea Valdivia
SERIAL Nº 5405

SAMPLE ID.	DATE	TIME	Lab Sample No.	No. of Containers	TYPE: Soil	TYPE: Water	TPHd (EPA 8015M)	TPHmo (EPA 8015M)	TPHg (EPA 8015M)	BTEX (EPA 8021/602)	VOCs (EPA 8260/624)	Metals (EPA 6010/7000)	+ PCBs	+ As/Pb	TAT: Standard	TAT: RUSH 3 days	TAT: HOLD
SEWERLINEC-50'	03/26	1303			X								X	X		X	

REMARKS

*VOCs: ☐ 8260 List ☐ 8240 List ☐ 8010 List ☐ 624 List
**Metals: ☐ CAM17 ☐ RCRA ☐ LUFT

RUSH

SAMPLE RECEIPT: ☐ Intact ☐ Cold ☐ On Ice ☐ Ambient
Cooler Temp: 22.4°C
Cooler No: (24HS)
Preservative Correct? ☐ Yes ☐ No ☐ N/A

ANALYTICAL LABORATORY: Test America

METHOD OF SHIPMENT:
LAB REPORT NO.:
FAX COC CONFIRMATION TO:
FAX RESULTS TO:
SEND HARDCOPY TO:
SEND EDD TO: EMV.LABEDDS.COM

1 RELINQUISHED BY: Andrea Valdivia 03/26/10 (SIGNATURE) (DATE)
Andrea Valdivia 1317 (PRINTED NAME) (TIME)
ARCADIS (COMPANY)

RECEIVED BY: [signature] 3/26 (SIGNATURE) (DATE)
SHANE PICKETT 3/26 (PRINTED NAME) (TIME)
ICS NORCAL (COMPANY)

2 RELINQUISHED BY: [signature] 3/26/10 (SIGNATURE) (DATE)
SHANE PICKETT 1530 (PRINTED NAME) (TIME)
ICS NORCAL (COMPANY)

RECEIVED BY: [signature] 3/26/10 (SIGNATURE) (DATE)
[signature] 1530 (PRINTED NAME) (TIME)
TASF (COMPANY)

3 RELINQUISHED BY: (SIGNATURE) (DATE)
(PRINTED NAME) (TIME)
(COMPANY)

RECEIVED BY (LABORATORY): (SIGNATURE) (DATE)
(PRINTED NAME) (TIME)
(COMPANY)

CHAIN of CUSTODY - ANALYSES FORM.CDR 5/2003

Shipping Copy (White) File Copy (Yellow) Field Copy (Pink)

03/31/2010

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Job Number: 720-26891-1

Login Number: 26891

List Source: TestAmerica San Francisco

Creator: Hoang, Julie

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	